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APPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,959	09/3	0/2003	Daoqiang Lu	42P17603	P17603 8132	
8791	7590	09/27/2005		EXAM	EXAMINER	
BLAKELY	SOKOLOF HIRE BOUL	KERNS, KEVIN P				
SEVENTH I		EVARD		ART UNIT	PAPER NUMBER	
LOS ANGEI	LES, CA 90	0025-1030		1725		

DATE MAILED: 09/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			V			
	Application No.	Applicant(s)				
	10/676,959	LU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kevin P. Kerns	1725				
 The MAILING DATE of this communication appeared for Reply 	ppears on the cover sheet w	ith the correspondence address	S			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO ute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this community BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30	September 2003.					
2a) ☐ This action is FINAL . 2b) ☐ Th						
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) <u>1-30</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdr	awn from consideration.					
5) Claim(s) is/are allowed.						
6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to.						
8) Claim(s) 1-30 are subject to restriction and/o	r election requirement					
o) Chairi(s) 1-30 are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examin	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).	*			
Replacement drawing sheet(s) including the corre			, ,			
11) The oath or declaration is objected to by the □	Examiner. Note the attache	d Office Action or form PTO-19	52.			
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority docume						
2. Certified copies of the priority docume		· · · — —				
3. Copies of the certified copies of the pr	<u> </u>	n received in this National Stag	je			
application from the International Bure * See the attached detailed Office action for a li		t received				
	st of the certified copies no	rreceived.				
Attachment(s)	_					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date				
Notice of Draitsperson's Patent Drawing Review (PTO-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		Informal Patent Application (PTO-152)			



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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-20, drawn to methods, classified in class 228, subclasses 207 and 223.
 - II. Claims 21-30, drawn to a system, classified in class 228, subclass 33.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the method of Invention I can be practiced on an apparatus that is materially different from that of Invention II, and the apparatus of Invention II can be used in a method that is materially different from those of Invention I. For example, the methods of Invention I can be practiced on an apparatus that lacks a flux dispenser (e.g. flux could be pre-applied). Furthermore, the apparatus of Invention II can be used in a method of applying flux on a substrate that lacks a plurality of solder bumps.

3. Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group I, restriction for examination purposes as indicated is proper.

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If applicant elects Group I, applicant must additionally elect the following:

4. This application contains claims directed to the following patentably distinct

species of the claimed invention:

la. Claims 1-10, drawn to a method that includes the additional steps of

placing a die on a substrate and reflowing the die in an oven.

lb. Claims 11-20, drawn to a method that includes the additional step of

mixing a solvent with a water soluble monomer/polymer to form a flux.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for

prosecution on the merits to which the claims shall be restricted if no generic claim is

finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification

of the species that is elected consonant with this requirement, and a listing of all claims

readable thereon, including any claims subsequently added. An argument that a claim

is allowable or that all claims are generic is considered nonresponsive unless

accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration

of claims to additional species which are written in dependent form or otherwise include

all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

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are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kevin P. Kerns whose telephone number is (571)

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272-1178. The examiner can normally be reached on Monday-Friday from 8:00am-

5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kevin P. Kerns Kevinkena 9/20/05 Primary Examiner

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Primary Examiner
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KPX

kpk

September 20, 2005